

Second Amendment and Response under 37 C.F.R. 1.116

Applicant: Wesley R. Schalk et al.

Serial No.: 10/657,973

Filed: September 9, 2003

Docket No.: 100201968-4

Title: POWER TRANSMISSION ARRANGEMENT

IN THE CLAIMS

Please cancel claims 16 and 25-29 without prejudice.

1-10. (Cancelled)

11. (Previously Presented) A power transmission arrangement, comprising:

a shaft;

a first gear mounted on the shaft;

a plate supported by the shaft and rotatable between a first position and a second position;

a second gear supported by the plate and engaged with the first gear; and

a third gear supported by the plate and movable between a disengaged position and an engaged position with the second gear when the plate is rotated between the first position and the second position, wherein the third gear is supported by the plate when the third gear is in both the disengaged position and the engaged position with the second gear;

wherein the plate includes a cam feature adapted to move the third gear between the disengaged position and the engaged position when the plate is rotated between the first position and the second position;

wherein the cam feature includes a first cam surface and a second cam surface, wherein the third gear is supported by the first cam surface when in the disengaged position and the second cam surface when in the engaged position.

12. (Original) The power transmission arrangement of claim 11, wherein the first gear is adapted to drive the third gear via the second gear when the plate is in the second position.

13. (Original) The power transmission arrangement of claim 11, wherein the plate is rotatable between the first position and the second position about an axis of the shaft.

14. (Cancelled)

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15. (Cancelled)

16. (Cancelled)

17. (Original) The power transmission arrangement of claim 11, further comprising:
a spring coupled to the plate, wherein the spring is adapted to bias the plate to the first position.

18. (Original) The power transmission arrangement of claim 11, wherein the plate includes a stop adapted to limit rotation of the plate and establish the first position thereof.

19. (Previously Presented) A power transmission arrangement for transmitting power from a drive shaft, comprising:
a drive gear driven by the drive shaft;
an idler gear engaging the drive gear;
a pinion gear selectively engaging the idler gear; and
a shift plate supported by the drive shaft and supporting the idler gear and the pinion gear,

wherein rotating the shift plate selectively engages and disengages the pinion gear with the idler gear, and wherein the shift plate supports the pinion gear when the pinion gear is both engaged and disengaged with the idler gear;

wherein the shift plate includes a cam feature supporting the pinion gear, and wherein rotating the shift plate includes moving the pinion gear with the cam feature to selectively engage the pinion gear with the idler gear;

wherein the cam feature includes a first cam surface and a second cam surface, and wherein moving the pinion gear with the cam feature includes moving the pinion gear along the first cam surface and the second cam surface.

20. (Original) The power transmission arrangement of claim 19, wherein selectively engaging the pinion gear with the idler gear includes driving the pinion gear with the drive gear via the idler gear.

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21. (Original) The power transmission arrangement of claim 19, wherein the drive shaft is rotatable about an axis, and wherein rotating the shift plate includes rotating the shift plate about the axis of the drive shaft.

22. (Cancelled)

23. (Cancelled)

24. (Original) The power transmission arrangement of claim 19, wherein rotating the shift plate includes overcoming a biasing force on the shift plate.

25-29. (Cancelled)

30. (Previously Presented) A power transmission arrangement, comprising:
a drive shaft;
a drive gear mounted on the drive shaft;
a shift plate supported by the drive shaft and rotatable between a first position and a second position, the shift plate including a first cam surface and a second cam surface;
an idler gear supported by the shift plate and engaged with the drive gear; and
a pinion gear supported by the shift plate and movable between a disengaged position and an engaged position with the idler gear, wherein the pinion gear is supported by the first cam surface of the shift plate when in the disengaged position and supported by the second cam surface of the shift plate when in the engaged position.

31. (Original) The power transmission arrangement of claim 30, wherein the pinion gear is driven by the drive gear via the idler gear when in the engaged position.

32. (Original) The power transmission arrangement of claim 30, wherein the shift plate is rotatable between the first position and the second position about an axis of the drive shaft.

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33. (Original) The power transmission arrangement of claim 30, wherein the first cam surface and the second cam surface are formed on an arm of the shift plate.
34. (Original) The power transmission arrangement of claim 30, further comprising:
a spring coupled to the shift plate and adapted to bias the shift plate to the first position.
35. (Original) The power transmission arrangement of claim 30, wherein the shift plate includes a stop adapted to limit rotation of the shift plate and establish the first position thereof.